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MATSUSHITA ELECTRIC WORKS

LTD

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(72) Inventor:

TERADA HARUHIRO

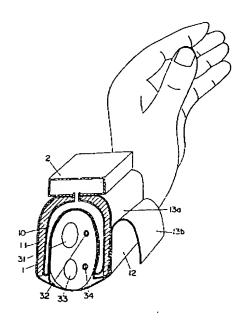
(54) CUFF BAND OF WRIST TONOMETER

(57) Abstract:

PURPOSE: To facilitate fixing to a wrist by providing a blood checking part for constricting the ulnar artery and radial artery of a wrist, and installing a U-shaped clip plate interiorly.

CONSTITUTION: A body 2 with a display part and switch arranged on the surface is installed on a cuff band 1 consolidated. This cuff band 1 is equipped interiorly with a blood checking sack 10 located on the inner surface and a U-shaped clip plate 11 located on the outer surface and surrounding the blood checking sack 10, and a fitting piece 12 is extending at one end. When expanding, this blood checking sack 10 constricts the radial artery 32 on the radius 31 side situated inside the wrist and the ulnar artery 34 located on the ulna 33 side. The clip plate 11 is formed from plastics capable of elastic deformation, and the part of cuff band 1 where the blood checking sack 10 is fitted, is held in U-form.

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の発明の名称 手首用血圧計のカフ帯

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⑫発 者 晴 博

大阪府門真市大字門真1048番地 松下電工株式会社内

の出 願 松下電工株式会社 人

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大阪府門真市大字門真1048番地

四代 理 人 弁理士 石田 長七

1. 発明の名称

手首用血圧計のカフ符

2. 特許納沃の範囲

(1) 手首の機骨動脈と尺骨動脈とを圧迫して血 圧測定を行なう血圧計のカフ帯であって、上記両 動脈の圧迫用阻血部を傾えるとともに、内部にU 字型であり且つ閉口部の幅が手首の厚みに略等し いものとされたクリップ板を娘えていることを符 徴とする手首用血圧計のカフ格。

3. 発明の詳細な説明

【産業上の利用分野】

本発明は手首において血圧測定を行なう手首用 血圧計のカフ帯に関する。

【従来の技術】

血圧計として従来より提供されているのは、そ のカフ帯が上腕に装着されて、上腕動脈から血圧 の想定を行なうものであった。

【発明が解決しようとする課題】

この場合、カフ帯の装着に際し、シャツの袖を 大きくまくり上げたりシャツを脱いだりしなくて はならない.

本発明はこのような点に置み為されたものであ り、その目的とするところは血圧測定を簡便に行 なうことができる手首用血圧計のカフ帯を提供す るにある。

【課題を解決するための手段】

しかして本発明は、手首の機骨動脈と尺骨動脈 とを圧迫して血圧測定を行なう血圧計のカフ帯で あって、上記両動脈の圧迫用阻血部を備えるとと もに、内部にU字型であり且つ閉口部の幅が手首 の尽みに略等しいものとされたクリップ板を頒え ていることに特徴を有している。

【作用】

本発明によれば、手首において血圧固定を行な うために、シャツを大きくまくり上げる必要がな く、しかもクリップ板内に手首を嵌め込むことに よって、手茸への取り付けを容易に行なえるもの である.

(実施例)

上記阻血袋10は、ゴム袋のような弾性伸縮自在なもので形成されており、この阻血袋10を囲んでいるクリップ板11も、弾性変形可能な合成 樹脂にて形成されて、カフ荷1における阻血袋10か設けられた部分をU字状に保持している。 徐に、クリップ板11の関口幅は手首の厚みに略等しいものとされており、手首への装着は、カフ荷1のU字状をなしている部分に、手首をその傾面

また、このように手首にカフ帯1を装着した時、 前述のように、表示部20を備えた本体部2は、 まを横に向けた状態の時に、上方を向くようにす ることで、腕をねじって準が上を向くようにしな くとも、血圧値を読取れるようにしてある。

ここでは血圧計の本体部2がカフ帯1に一体的 に取り付けられているものを示したが、このよう な形態に限るものではないことは明白である。

【発明の効果】

4. 図面の簡単な説明

第1図は本発明一実施例の破断斜視図、第2図

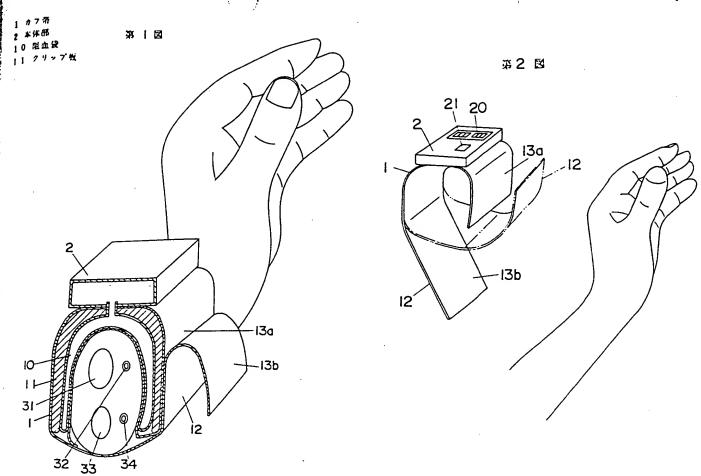
から嵌め込んだ時、クリップ数11の弾性により 手首に過不足なくカフ帯1が嵌まるようになって いる。尚、上記本体部2は、このクリップ数11 に連結されて、カフ帯1に取り付けられたものと なっている。

カフ帯1の一端の上記装着片12は、その内面 側に、カフ帯1地端の外面側に設けられた面状ファ スナー13aと対をなす面状ファスナー13bが取 り付けられているもので、上述のようにクリップ 板11の弾性を利用して手首にカフ帯1を嵌め付 けた後、装着片12を異に恐いて面状ファスナー 13a,13b同士を結合させることにより、手首 へのカフ帯1の装着が完了する。

ここにおいて、上記阻血袋10は、膨張した際に、手首の内部にある機件31 側の機骨動脈32 と、尺件33 側にある尺骨動脈34の調動脈を、手首の前後面及び一方の側面から圧迫することができる大きさとされており、この時の阻血袋10は、外周側に控えているクリップ板11のために、膨張時の圧力を、手首側に確実に伝える。

は同上の斜視図であって、1はカフ帯、2は本体 部、10は阻血袋、11はクリップ板を示す。

代理人 弁理士 石 田 長 七



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Request for Examination: Not made

Inventor:

Haruhiro TERADA

Applicant:

Matsushita Electric Works, Ltd.

Specification

1. Title of the Invention

CUFF BAND OF WRIST SPHYGMOMANOMETER

2. Claim

- (1) A cuff band of a sphygmomanometer for pressing a radial artery and an ulnar artery of a wrist to measure a blood pressure, characterized in that said band has a blood checking section for pressing both said arteries, and includes therein a clip plate which has a U-shaped form and in which the width of an opening is substantially equivalent to the thickness of the wrist.
- 3. Detailed Description of the Invention [Industrial Field of Application]

The present invention relates to a cuff band of a wrist sphygmomanometer for measuring a blood pressure in a wrist.

[Prior Art]

As for a sphygmomanometer provided so far, a cuff band thereof is attached to a brachium and a blood pressure is measured from a brachial artery.

[Problem to be Solved by the Invention]

In this case, upon attaching the cuff band, the user must extensively roll up a sleeve of his shirt or take off his shirt.

The invention is made in consideration of the problem and it is an object of the invention to provide a cuff band of a wrist sphygmomanometer whereby a blood pressure can be easily measured.

[Means for Solving the Problem]

The invention relates to a cuff band of a sphygmomanometer for pressing a radial artery and a ulnar artery of a wrist to measure a blood pressure, characterized in that the band has a blood checking section for pressing both the arteries, and includes therein a clip plate which has a U-shaped form and in which the width of an opening is substantially equivalent to the thickness of the wrist.

[Operation]

According to the invention, to measure a blood pressure in a wrist, it is unnecessary to extensively roll up a shirt. Further, the wrist is fitted into a clip plate, so that the attachment to the wrist can be easily performed.

[Embodiment]

The invention will now be described in detail hereinbelow on the basis of an illustrated embodiment. As shown in Fig. 2, a sphygmomanometer is constructed in such a manner that a main body 2 in which a blood pressure display unit 20 and a switch 21 are arranged on the surface thereof is integratedly attached to a cuff band 1. When the user attaches the cuff band 1 to his wrist, a blood pressure can be measured in a state in which his palm faces sideways. As obviously understood from Fig. 1, the cuff band 1 made of clothes or the like comprises a blood checking bag 10 located on the inner peripheral side and has therein a U-shaped clip plate 11 which is located on the outer peripheral side and which surrounds the blood checking bag 10. A fitting piece 12 is extended at one end of the band.

The above blood checking bag 10 is made of a material such as a rubber bag which is elastic and extendable. The clip plate 11 surrounding the blood checking bag 10 is also made of a synthetic resin which is elastic and can be deformed. The clip plate holds a portion, in which the blood checking bag 10 is provided for the cuff band 1, in a U-shaped form. Further, the opening width of the clip plate 11 is substantially equivalent to the thickness of the wrist. As for the attachment to the wrist, when the side surface of the wrist is slipped into the U-shaped portion of the cuff band 1, the cuff band

l is properly fitted to the wrist due to the elastic properties of the clip plate 11. The above-mentioned main body 2 is coupled to the clip plate 11, thereby being attached to the cuff band 1.

end of the cuff band 1, a plane fastener 13b, which pairs with a plane fastener 13a arranged on the outer surface of the other end of the cuff band 1, is attached. As mentioned above, the cuff band 1 is fitted to the wrist by using the elastic properties of the clip plate 11 and, after that, the fitting piece 12 is further wrapped around the wrist to connect the plane fasteners 13a and 13b to each other, thereby completing the attachment of the cuff band 1 to the wrist.

In this instance, the above-mentioned blood checking bag 10 has such a size that when the bag is expanded, it can press both of a radial artery 32 located on a radius 31 side and an ulnar artery 34 on an ulna 33 side in the wrist from the front and rear surfaces and one side surface of the wrist. At that time, the blood checking bag 10 surely transmits a pressure upon expansion to the wrist due to the clip plate 11 provided on the outer peripheral side.

When the cuff band 1 is attached to the wrist in this manner, the main body 2 having the display unit 20 as mentioned above is constructed in such a manner that when the palm faces sideways, the main body faces upward. Accordingly, even when

the user does not twist his arm so that the palm faces upward, he can read a blood pressure value.

The embodiment in which the main body 2 of the sphygmomanometer is integratedly attached to the cuff band 1 has been illustrated here. It is obvious that the invention is not limited to it.

[Effects of the Invention]

As mentioned above, the cuff band according to the invention is attached to the wrist to press the radial artery and the ulnar artery. Upon measuring the blood pressure, it is unnecessary to extensively roll up the shirt. Further, the U-shaped clip plate provided for the cuff band permits the cuff band to maintain such a form that fitting to the wrist can be easily made, so that the band can be attached to the wrist with a single motion. Accordingly, the attachment to the wrist can be also easily performed.

4. Brief Description of the Drawings

Fig. 1 is an exploded perspective view of an embodiment of the invention and Fig. 2 is a perspective view thereof.

Reference numeral 1 denotes a cuff band; 2 a main body; 10 a blood checking bag; and 11 a clip plate.